

# Clean Power Technologies Help Our Economy and our Planet

Clean energy sources like **WIND & SOLAR** are critical parts of reducing greenhouse gas emissions and combating climate change.

Transitioning to majority zero-carbon energy sources like land-based wind, offshore wind, and solar will help drive the clean energy economy forward while benefiting our planet.

When generating electricity, **WIND & SOLAR** power produce zero carbon emissions, the greenhouse gas primarily responsible for climate change

The carbon footprint of a typical **SOLAR** pv plant is **11x smaller** than a natural gas plant and **21x smaller** than a coal plant

A typical **WIND** project repays its carbon footprint from construction in **six months or less**, providing decades of zero-emission energy



## Clean Power Reduces Carbon Emissions

**WIND & SOLAR** power avoid emitting **492 million** metric tons of carbon dioxide per year.

That amount is the emissions equivalent of:

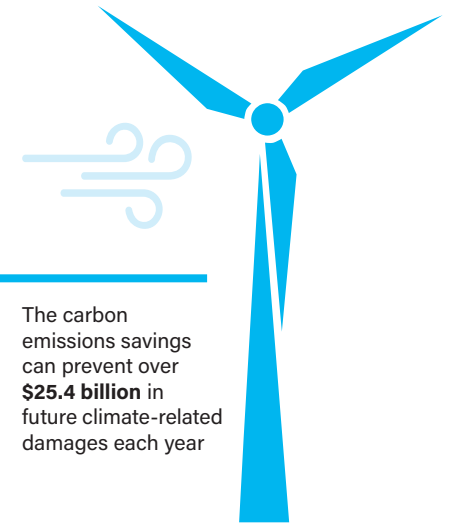
Taking more than **84 million** cars off the road each year

**512 million** one-way trips down scenic Route 66

Would equal the amount of carbon sequestered by planting **21.7 billion** trees

The carbon emissions saved is equivalent of not using more than **55 billion** gallons of gasoline

The carbon emissions savings can prevent over **\$25.4 billion** in future climate-related damages each year



Driving **1.23 trillion** miles in your average car.

That's the emissions equivalent of:

**49.4 million** trips around the Earth

**5.6 trillion** football fields long

**6 trillion** trips around the bases on a baseball diamond

## Clean Power Makes Communities Healthier by Improving Air Quality

Generating electricity using clean power provides public health benefits. **WIND & SOLAR** power cut significant amounts of harmful air pollutants that impair the respiratory system and exacerbate asthma, like **sulfur dioxide (SO2)** and **nitrogen oxides (NOx)** from entering the Earth's atmosphere.

**Decreasing these pollutants helps to reduce smog and the rates of asthma attacks and other respiratory issues**

Emissions avoided by clean power generate health impacts with an economic value between \$20-\$51 billion

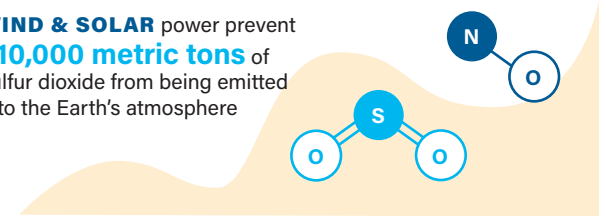
**WIND & SOLAR** power avoid **376,000 metric tons** of nitrogen oxides from being emitted into the Earth's atmosphere



That's the same amount of NOx emitted by an average tractor trailer driving nearly **44 billion** miles

**15 million** tractor trailers driving across the country

**WIND & SOLAR** power prevent **310,000 metric tons** of sulfur dioxide from being emitted into the Earth's atmosphere



## Clean Power Saves Water

Because clean power does not require water for cooling like conventional power plants, **WIND & SOLAR** projects save **240 billion** gallons of water each year.

That amount of water is enough to fill:

**363,000** Olympic-sized swimming pools

**1.9 Trillion** bottles of water

